

GZECHOSLOVAKIA UDC 616.594-008.9(546.19)-057-074:613.632

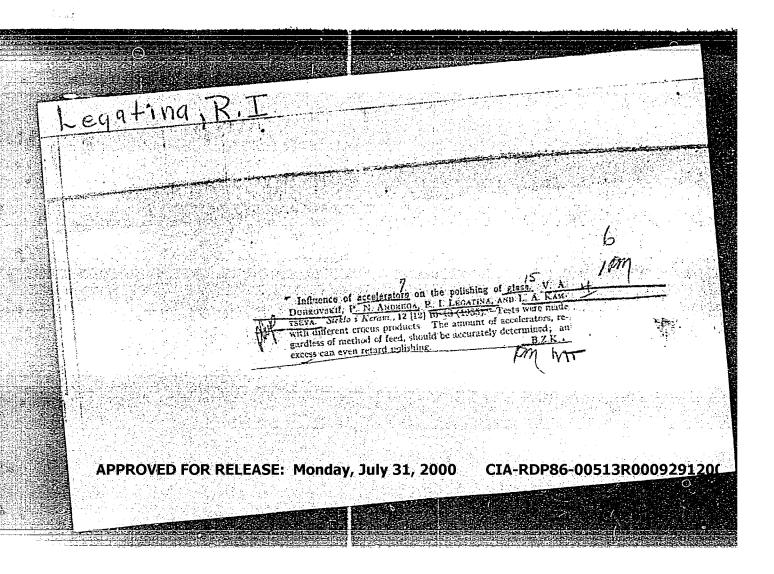
PORAZIK, Ivan; LEGATH, Vladimir; PUCHA, Katarina; KRATOCHVIL, Ivan; Krajska Station of Hygiene and Epidemiology, of the Kraj of East Slovakia (Krajska Hygienicko-Epidemiologicka Stanica Vychodoslovenskeho Kraja), Kosice, Director (Riaditel) Dr I. Kratochvil.

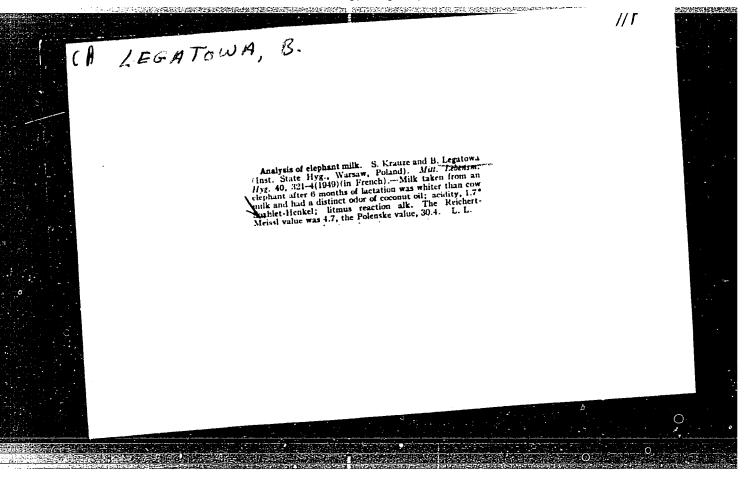
"Evaluation of Exposure to Arsenic Trioxide in Working Environment by the Determination of Arsenic Content in Hair."

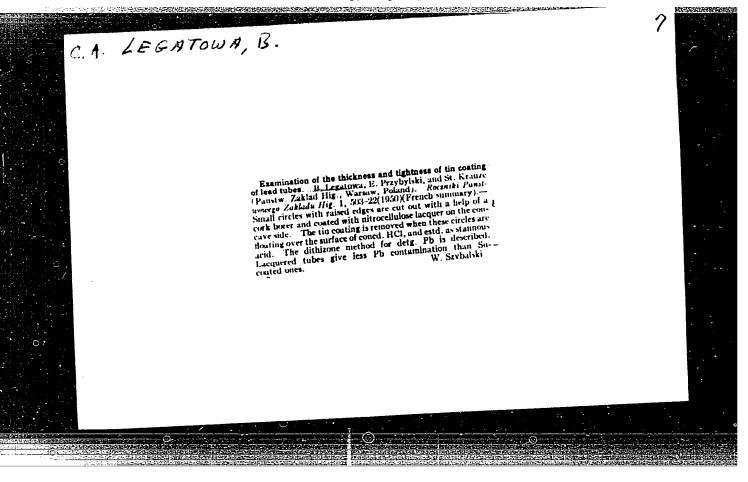
Prague, Pracovni Lekarstvi, Vol 18, No 8, Oct 66, pp 352-356

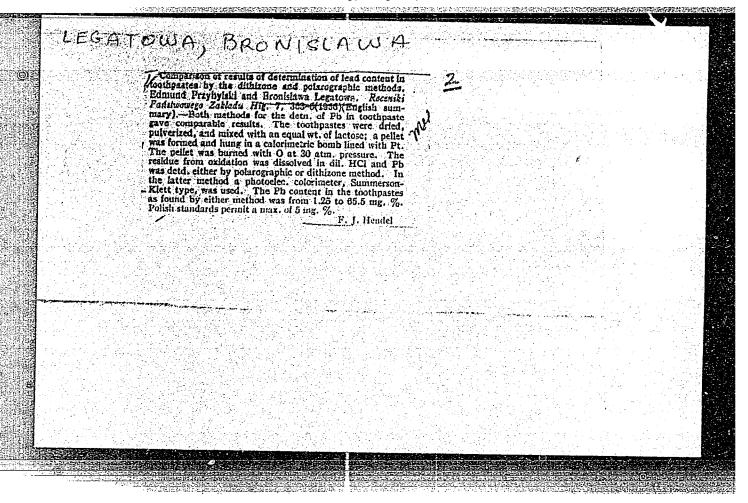
Abstract /Authors' English summary modified 7: 21 workmen in a copper-producing plant exposed to an atmosphere containing 1.01 to 5.07 mg of As203 per cubic meter had a mean arsenic content of hair of 178 micrograms per gram. A group of workers in another plant exposed to concentrations of 0.08 to 0.18 mg/ cubic meter of arsenic trioxide had a mean arsenic concentration in hair of 56.6 micrograms per gram. Unexposed workers had a mean hair content of 0.149 micrograms per gram. The exposure time has little influence on the content of arsenic in the hair, but the amount in the air is most important. The workers did not suffer from clinical arsenic poisoning. 3 Tables, 5 Western, 3 Czech, 2 1/1 East German references. (Manuscript received 20 Aug 65).

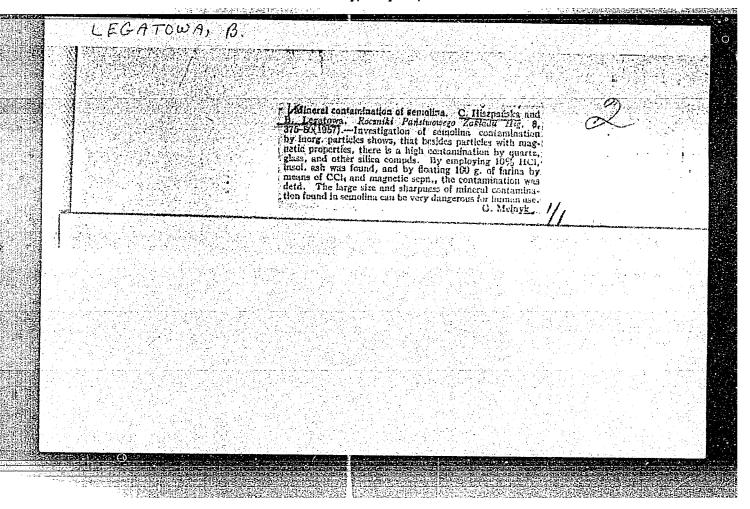
- 21 -

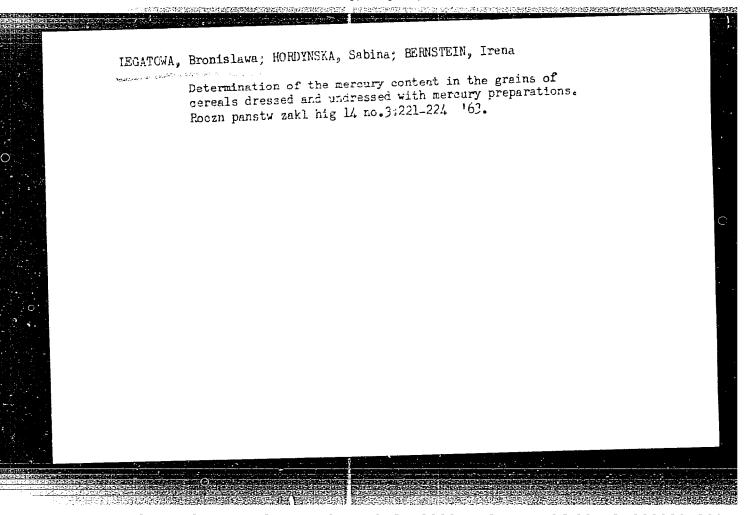












LEGATOWA, Bronislawa

Separation and identification of fluorescein dyestuffs in cosmetics. Roczn. Panstw. Zakl. hig. 16 no.5:453-459 1 65.

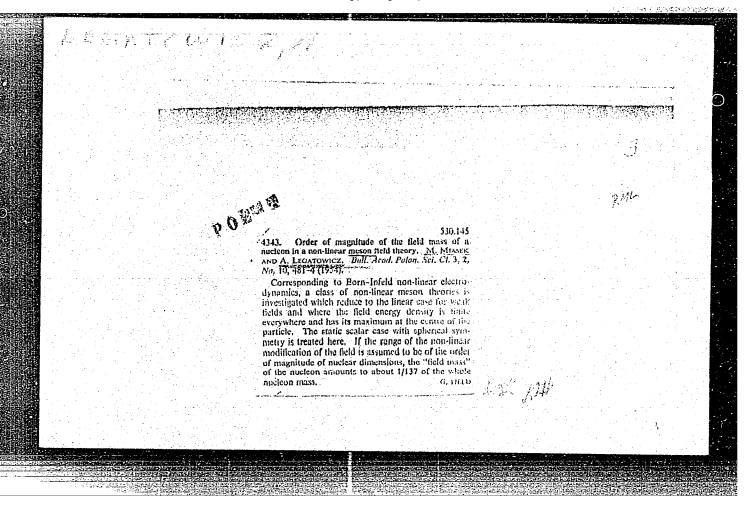
1. Z Zakladu Badania Zywnosci i Przedmiotow Uzytku Panstwewego Zakladu Higieny (Kierownik: prof. dr. M. Ki-konorow).

LEGATOWICZ, A.

Bulletin - Vol. 2, No. 10, 1954.

Order of magnitude of the field mass of a nucleon in a nonlinear meson field theory. In English. p. 481.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, no. 9, Sept. 1955 Uncl.



37656

S/124/62/000/005/007/048 D251/D308

26.1410

AUTHOR:

Legatowicz, A.

TITLE:

Behavior of plasma in a rotating magnetic field

PERIODICAL:

Referativnyy zhurnal. Mekhanika, no. 5, 1962, 12, abstract 5B55 (Inst. badań., Jadrow, PAN, 1961, no.

210/IX)

TEXT: The work consists of two parts. In the first part there is solved the equation of motion of a charged particle in a rotating electromagnetic field. The magnetic field is homogeneous and the electric field is directed along the axis of rotation and is linearly dependent on the transverse co-ordinates. Conditions are found for which the particle remains close to the axis. The energy of the particle is estimated for this case. In the second part is solved Cauchy's problem with homogeneous initial conditions for a system of macroscopic equations of a two-component plasma in a rotating electromagnetic field. For this a series of suppositions is made, by means of which in the Spitzer equations of motion for the component are preserved only the local derivative of velocity and the Card 1/2

S/124/62/000/005/007/048
Behavior of plasma in a rotating ... D251/D308

Lorentz force. The system is solved as an expansion in a small parameter of order v/c. The zero, first and second approximations are found with the aid of a Laplace transformation. From the approximations obtained it follows that: 1) Separation of the charges does not occur; 2) Oscillations of four distinct frequencies appear. The frequency of the revolution of the external field is found with which there occurs resonance in the component and the energy of the electromagnetic field transferred in this case to the ionic component is calculated. [Abstractor's note: Complete translation].

Card 2/2

24.2120

S/124/62/000/004/005/030 D251/D301

AUTHOR:

Legatowicz, A.

TITLE:

The method of solving the non-stationary motions of α

plasma in an electromagnetic field

PERIODICAL:

Referativnyy zhurnal, Mekhanika, no. 4, 1962, 11, abstract 4B59 (Referat. Inst. badań. jądrow. PAN, 1961,

no. 243)

TEXT: A method is proposed for solving problems on the non-stationary motion of a plasma in an electromagnetic field. The method is based on the expansion of the solution as a series in a small parameter of order v/c where v is the electron velocity and c the velocity of light. The starting point consists of the equations of motion of electronic and ionized gases, the equations of continuity and Maxwell's equations for an electromagnetic field. The equations are written in dimensionless form. The equations of motion are simplified, terms are omitted with derivatives of the velocity with respect to the coordinates, with pressure gradients and the force Card 1/2

Jara 1, 2

The method of solving ...

S/124/62/000/004/005/030 D251/D301

of friction after calculating the exchange of impulses between electrons and ions. There remain only a term with a simple derivative of the velocity with respect to time and a force acting from the side of the electric and magnetic field. Conditions are derived, in which these simplifications are justified. The solution is expressed in the form of an expansion as a series in the small parameter o of order v/c. Equations are derived for successive approximations. In the zero approximation the electric and magnetic field, the density of electrons and ions is constant and equal to the initial value. The density of charge and current is equal to zero. For solving the equation in subsequent approximations, the Laplace transformation is applied to the equations of motion. /Abstracter's note: Complete translation. /

Card 2/2

LEGATOWICZ, Aleksander Statistical method of reliability evaluation of automatic electric control systems. Archiw automat 7 no.3/4:465-471 '62. 1. Katedra Elektrotechniki Ogolnej, Politechnika, Warszawa.

	L 1907h-63 ENT(1)/BDS/EEC(b)-2 AFFTC/ASD/ESD-3/RADC/APGC Pg-h/ACCESSION NR: AP3006044
	F/VU34/63/000/008/008/000/008
İ	(Dr.=Engr.)
	TITLE: Statistical method for evaluating the operational reliability of electrical
	SCURCE: Pomiary, automatyka, kontrola, no. 8, 1963, 340-342
	TOPIC TAGS: reliability automatic system, statistical evaluation automatic system
a fi a p c b c	ABSTRACT: A statistical method for evaluating the reliability of electrical automatic systems is presented. The economics of automation is based on two and 2) the advantages accruing from the correct functioning of the equipment, corformance is analyzed in regard to both these characteristics. Two basic eing expressed in terms of the probability of failure, the average time and correct operation and system, their operation are time as
	ne various characteristics is estimated by first assuming the most probable
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ACCESSION NR: AP3006044	\mathcal{O}
reliability function and then calculating the probability function about the conflict the desired equation for the probability function that the probability of events be maximum. In practical	mponent under consideration.
is most conveniently resolved into a complete series	of linearly independent
functions: a power series is the simplest one to use, to series as well as parallel systems (in the first of	ease, the failure of one
element results in failure of the system; in the seconnly when all elements fail). The above method can a	Uso be modified for the
case when components of the system are replaced befor designed solely for functional considerations is usua	e failure occurs. A system
if its reliability is insufficient, then parallel bra	nches are connected either
across the entire circuit or at least across the weak method of analysis is applicable to such cases. The	results of reliability
analysis are being used for economic analysis, safety tion. Orig. art. has: 28 formulas.	analysis and for optimiza-
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	ACCESSION				•			,			<u>-</u>	
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04635-67 EWT(m)/EWP(k)/EWP(t)/ETI AP6020935 SOURCE CODE: UR/0383/66/000/003/0038/0040 AUTHORS: Chepurko, M. I. (Candidate of technical sciences); Buynovskiy, A. M.; Smorshchok, V. S.; Legavets, G. A. ORG: none TITLE: Rolling of bimetallic pipes of steel-copper, on a continuous pipe rolling SOURCE: Metallurgicheskaya i gornorudnaya promyshlennost¹, no. 3, 1966, 38-40 TOPIC TAGS: metal tube, pipe, bimetal, steel, copper, metal rolling ABSTRACT: A general discussion of the industrial production of bimetallic pipes (steel-copper and others) is presented. The discussion is based on the bimetallic pipe production method proposed by one of the present authors, M. I. Chepurko (Sposob izgotovleniya bimetallicheskikh trub. Avtorskoye svidetel'stvo No. 87842, vydannoye Gostekhnikov SSSR v 1950 g.). Experiments have shown that the best preliminary treatment for copper surfaces is a chemical one consisting of an alkali and acid application. To avoid defects in the copper member of the bimetallic pipe, care should be exercised not to overheat the copper member (see Fig. 1). It is concluded that, with present day techniques, it is possible to manufacture bimetallic pipes of various metals up to a diameter of 70 mm. Card 1/2 UDC: 621.774.5.001.6

ACC NR: AP6020935		0
Fig. 1. Characteristic defects on the inner surface of steel-copper pipes of	Unit Carlo and Assessment Carlo and Assessment	
57 x 6.0 mm cross section.	A STATE OF THE PROPERTY OF THE	
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The second of th	प्राचनकर । अनुसारको विकास अनुस्थितिक एक गाउँ के सम्बद्धाः स्कृतः । कार्याः । विकासी स्वास्त्रः ।	1 10 600 725

GOL'DFARB, E.M.; LEGAVETS, L.V.

Performance of blast furnace air preheaters with dilution by a preheated blow. Metallurg 8 no.3:3-5 Mr '63. (MIRA 16:3)

1. Dnepropetrovskiy metallurgicheskiy institut. (Elast furnaces) (Air preheaters)

GOL'DFARB, E.M.; LEGAVETS, L.V.

Determining the optimum frequency of reversing blast furnace air preheaters. Izv. vys. ucheb. zav.; chern. met. 6 no.2:150-157 '63. (MIRA 16:3)

1. Dnepropetrovskiy metallurgicheskiy institut. (Blast furnaces—Equipment and supplies) (Air preheaters)

LEGAY, E.

SCIENCE

Periodicals: PRZEGLAD GEODEZYJNY. Vol. 14, no. 9, Sept. 1958.

LEGAY, E. The PZO Ni 4 engineer's level; critical remarks. p. 345.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 4, April 1959, Unclass.

LEGCHAK, B.S. Prevent accidents in stope area. Bezop.truda v prom. 5 no.6:7-9 Je '61. (MIRA 14:6) 1. Nachal'nik upravleniya Primorskogo okruga Gosgortekhnadzora RSFSR. (Maritime Territory--Coal mines and mining--Safety measures)

USSR / Pharmacology, Toxicology. Cardiovascular Drugs. Abs Jour: Ref Zhur-Biol., No 9, 1958, 42379. Author : Mordvinova, Ye. I.; Legchavev. V. Va. : Smolensk Medical Institute. : The Effect of Convaside on the Blood Vessels of Title an Isolated Rabbit Ear with Intact Innervation Under Conditions of Normal and Elevated Intraabdominal Pressure. Orig Pub: Tr. Smolenskogo med. in-ta, 1957, 83-88. Abstract: In rabbits, under chloroform anesthesia, the ear, with intact innervation, was isolated by the method of M. P. Nikolaev. Prior to this, and without anesthesia, (through an incision in the mid-abdominal line, 2 cm distally from the umbilicus) a thin rubber balloon, attached to a V shaped manometer, was inserted into the abdominal cavity. Card 1/2 22

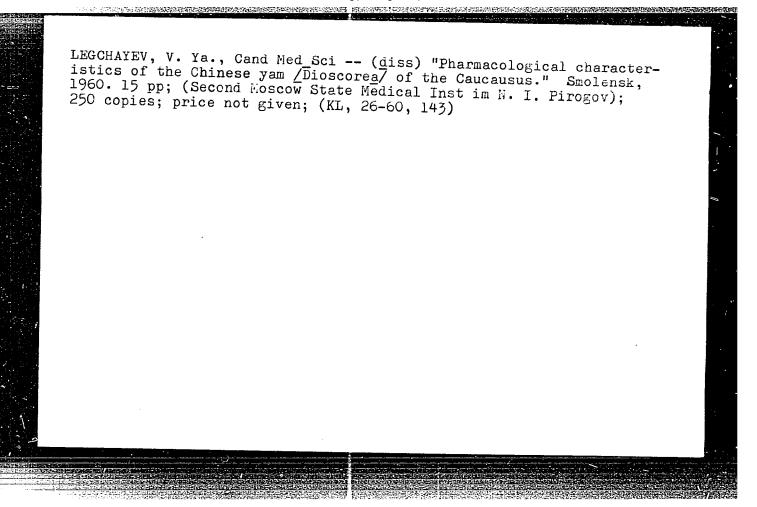
USSR / Pharmacology, Toxicology. Cardiovascular Drugs. V
Abs Jour: Ref Zhur-Biol., No 9, 1958, 42379.

Abstract: Convaside (I) in concentration of 1:500 in Ringer-Locke solution, was perfused through the ear. The drops were counted every 5 min. The perfusion of I, under conditions of normal intraabdominal pressure (10 experiments) increased the number of drops of out-flowing fluid by an average of 51%, as compared with the basic flow. Upon elevation of the intraabdominal pressure by 20-22 mm of water column (5 experiments) the number of drops of the out-flowing fluid increased by 27%. Perfusion of I through the ear, under conditions of elevated intraabdominal pressure (8 experiments), increased the out-flow of fluid by 18%. -- L. N. Lavrent'yev

Card 2/2

Pharmacology of Dioscorea caucasia, Farm.i toks. 22 no.5;424-426 S-0 159. (MIRA 13;3) 1. Kafadra farmakologii (ispolnyayushchiy obyazannosti zaveduyushchego - dotsent A.I. Mitrofanov) Smolenskogo gosudarstvennogo meditsinskogo instituta. (PLANTS MEDICINAL pharmacol.)

Effect of Dioscorea caucasica on white mice, rats, and guinea pigs in radiation sickness. Zdrav.Bel. 8 no.11:39-41 N '62. (MIRA 16:5) 1. Iz kafedry farmakologii (ispolmyayushchiy obyazannosti zaveduyushchego - doktor med.nauk A.I. Mitrofanov) Smolenskogo meditsinskogo instituta. (RADIATION SICKNESS) (YAMS—THERAPEUTIC USE)

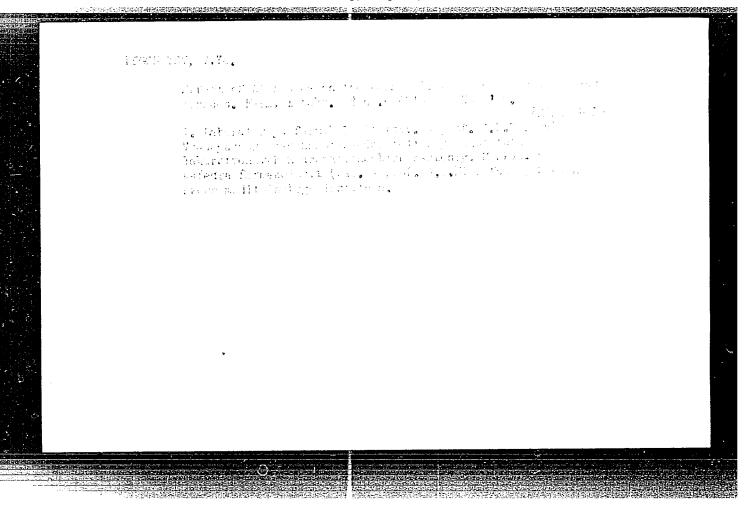


LECCHAYEV, V.Ya.

Effect of rosmaricine on the bile secreting function of the liver. Farm. i toks. 28 no.5:591-592 S-0 '65.

(MIPA 18:12)

1. Laboratoriya farmakologii (zav. - prof. A.D.Turova) Vsecoyuznogo instituta lekarstvennykh i arematicheskikh rasteniy, Moskva, i kafedra farmakologii (zav. - prof. A.I.Mitrofanov) Smolenskogo meditsinskogo instituta. Submitted May 18, 1964.



SOV/124-58-1-559

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 68 (USSR)

Legchenko, I.G. AUTHOR:

The Flow of a Surface Air Flow Past Obstacles in the Form of an TITLE: Elliptical Half-cylinder and a Solid Fence (Obtekaniye prizemnym

potokom vozdukha prepyatstviy v vide ellipticheskogo polutsilindra

i sploshnogo zabora)

PERIODICAL: Tr. Novosibir. in-ta zh. -d. transp., 1955, Nr 12, pp 136-148

The Poisson equation with a constant right-hand side for the stream ABSTRACT:

function of a plane-parallel motion of an ideal incompressible ileid is solved in elliptical coordinates by means of Galerkin's method. The approximate solution of the problem is compared with Chapling not s well-known solution of the problem of the vortex flow past a plate.

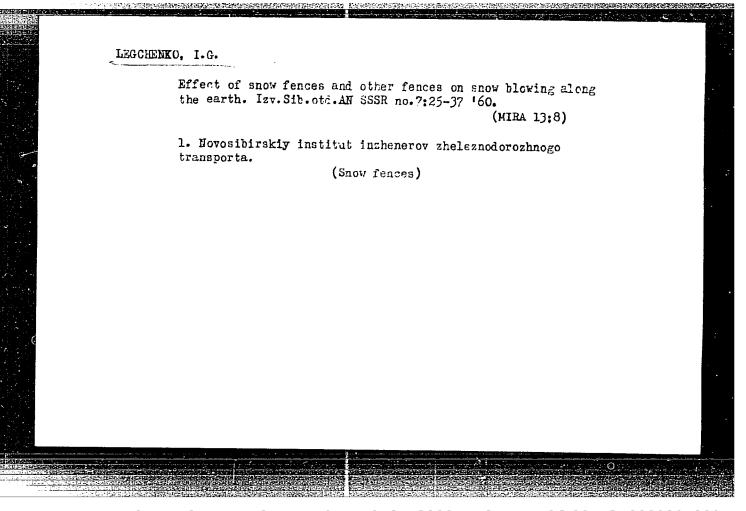
N. A. Slezkin

Card 1/1

LEGCHENKO, I.G.

Flow of a stream of incompressible fluid with a couple of following vortexes around an elliptic cylinder. Izv.Sib.otd. AN SSSR no.9:52-59 '58. (MIRA 11:11)

1. Novosibirskiy institut inzhenerov zheleznodorozhnogo transporta.
(Aerodynamics) (Railroads--Train speed)



"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929120

ACC NA: AP6028389		0182/66/000/006/0002/0009
AUTHOR: Popov,	Yc. A.; Bocharov, Yu. A.; Polyak, S. M.	; Stolbunov, A. S.; Raykh, D. B.;
Legchilin, A. I.	north T	60
	·	59
ORG: none	χ_{b}	-
TITLE: Deformation	on of metal by a pulsed magnetic field. Pa	rt II. Features of the mechanism
	blank in a pulsed magnetic field	
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SOURCE: Kuznechi	no-shtampovochnoye proizvodstvo, no. 6,	1966, 2-9
monto mace, high	speed eine camera, capacitor, pulsed ma	matic field matal deformation
SFR-2M high-speed	l cino camora, IM-5-150 capacitor	ignerio field, metal deloctifa sort
9	10	
	ulsed; intermittent nature of the application	
the forces of inerti-	a to affect greatly the process of deformat	ion and, in particular to cause
	is in the blank after the load is no longer a	
	s of a pulsed magnetic field (PMF) may be plucidate the machanism of PMF deformati	
	shape of the billet, this process was inve	
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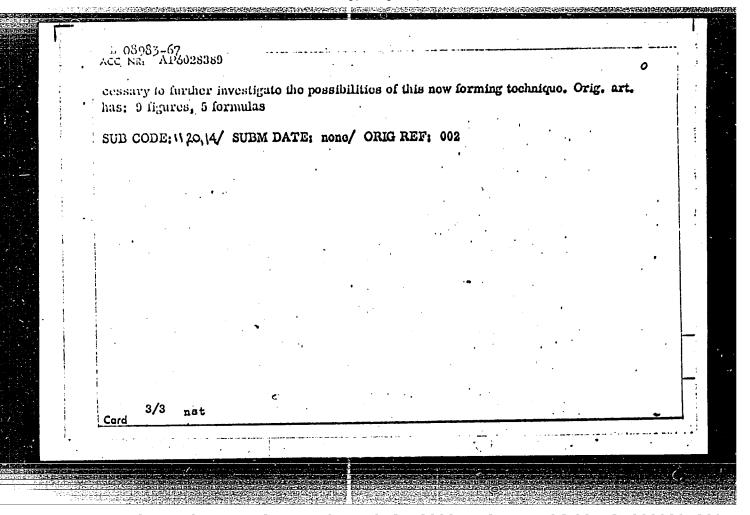
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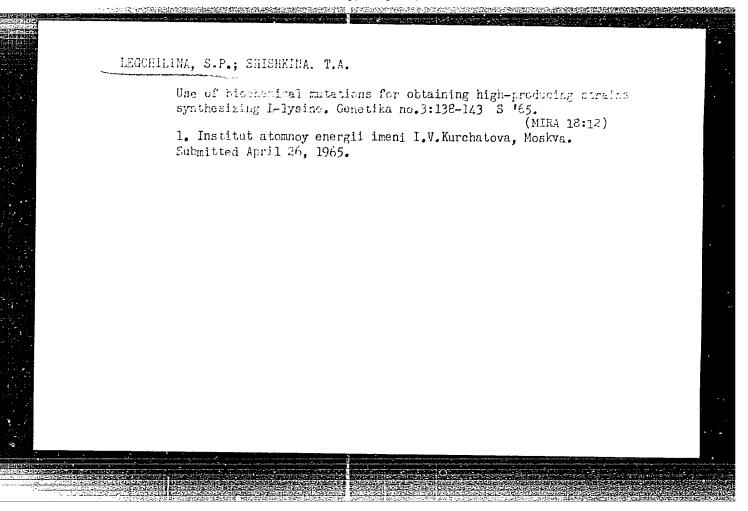
L 08983-67 ACC NR. AP6028389

high-speed motion picture camera with respect to a flat blank being drawn and formed in a ring die by means of 10- and 40-kilojoule devices based on IM-5-150 capacitors with a minimum discharge time of 10-6 sec. The kinograms thus obtained were used to construct curves of the displacements of individual points on the initially flat blank in time. Findings: during the initial stage of deformation the axial displacement of elements of the central part of the blank is smaller than that of the elements located closer to the die edge. During the later stages of deformation, however, the elements of the central part get additionally accelerated, overtaking the elements of the peripheral part of the blank. This is attributable to radial non-uniformity of the intensity of the magnetic field and it engenders plastic deformations in these elements; the plastic deformation continues until its work absorbs the difference between the kinetic energies of central and peripheral elements of the blank, or until the displacement rates of these elements get equalized. In addition, it is established that, all other things being equal, the increase in pulse energy leads to an increase in the height of the forging, while at the same time local convexity in the central part of the forging also increases. PMF forming of metals with low electrical conduction can result in much greater heights of the forgings if the inductor--facing surface of the blank is coated with a metal with high electrical conduction. It is further experimentally established that PMF forming can be used to perform assembling-joining operations if a cylindrical conductor is employed; thus, e.g. it can be used to produce more compact sheathed multicore cable. These are not the only applications of PMF. It is clearly ne-

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CIA-RDP86-00513R0009291200





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GEOSMAN, Yu.S.; Libeda, Ye.A.

Effect of vitamins C.PP, and B2 on the course of acute poisoning from sodium nitrite. Farm.i toks. 19 supplement: 58-59 '56.

(MIRA 10:7)

1. Lafedra farmakologii (zav. - prof. S.V.TSyganov) Odesskogo gosudarstvennogo meditsinskogo instituta imeni N.I.Progova.

(NITRITES, poisoning, sodium, eff. of vitamins C. PP & B2 in rabbits (Rus))

(VITAMIN C. effects, on exper, sodium nitrite pois. (Rus))

(VITAMIN B2, effects, same)

(NICOTINIC AGID, effects, same)
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LEGEDA, YE.A.

"Effect of Vitamins C, PP, and Bg on the Course of Acute Intoxication by Sodium Mitrite," by Yu. S. Grosman and Ye. A. Legeda, Chair of Fharmacology (head, Frof S. V. Tsyganov), Odessa State Medical Institute imeni N. I. Pirogov, Farmakologiya i Toksikologiya, supplement for 1956, 1957, pp 58-59

This article reports the results of experiments which were conducted on rabbits, mainly males 1.8-2.5 kilograms in weight, to determine the effect of vitamins in intoxications by sodium nitrite. The following emperiments were carried out: (1) control experiments in which the rabbits were administered subcutaneously 70 milligrams of sodium nitrite per kilogram of body weight; (2) control experiments in which the animals were administered subcutaneously 100 milligrams of sodium nitrite per kilogram of body weight; (3) control experiments in which the rabbits were administered introvenously methylene blue in doses of 5 milligrams per kilogram of body weight 30 minutes after the subcutaneous administration of sodium nitrite in doses of 100 milligrams per kilogram of body weight; and the fourth, fifth, sixth, and seventh experiments in which the effect of vitamins C, PF, and B2 on intoxications induced by the subcutaneous administration of sodium nitrite was studied.

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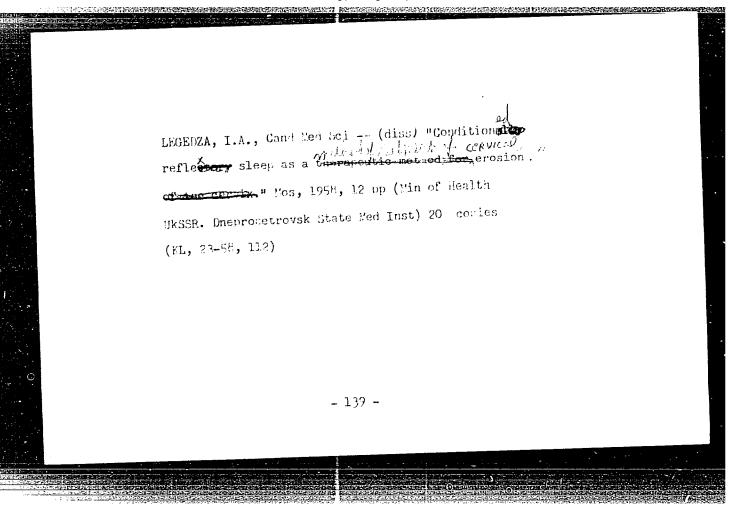
LEGEDA, YE.A.

On the besis of the experiments the following conclusions were arrived at: (1) the combined administration of ascerbic acid in doses of 40 milligrams per kilogram of body weight, sodium nicotinate in doses of 5 milligram per kilogram of body weight, and riboflavin in doses of 0.4 milligram per kilogram of body weight, 30 minutes after intexication by sodium nitrite occurred, was of great benefit as indicated by the large number of animals that recovered and remained alive; (2) this combination of vitamins was more effective when administered intravenously than when administered subcutaneously; (3) methylene blue in doses of 5 milligrams per kilogram of body weight failed to save the animals poisoned by sodium nitrite; (4) vitamins were considerably more effective than methylene blue in the therapy of intoxications by sodium nitrite. (U)

LEGEDZA, I.A. Conditioned reflex sleep as a therapeutic method in erosions of the corvex uteri; preliminary communication. Klin. med., Moskva 30 no.9: 61-65 Sept 1952. 61-65 Sept 1952.

1. Of the Obstetric-Gynecological Division (Head -- I. A. legedra), Makarovskiy Rayon Hospital (Head Physician -- R. M. Satayeva), Kiev Oblast.

APPROVED FOR RELEASE: Monday, July 31, 2000



L 21859-65 / EVIT(d) IJP(c)
ACCESSION NR: APSOOL138

2/0045/64/000/003/0217/0233

AUTHOR: Legen, A. (Legen', A.) (Bratislava); Salat, T. (Shalat, T.) (Bratislava)

TITLE: Certain applications of the method of categories in the theory of spaces

SCURCE: Matematicko-fyzikalny casopis, no. 3, 1964, 217-233

TOPIC TAGS: sequence, mathematic matrix Abstract:

Theorem 1.1. Let (X, Q) be a linear metric space and let (s(X), Q') be the space of all sequences of points in X, where

 $\varrho'(x,y) = \sum_{i=1}^{\infty} \frac{1}{2^i} \frac{\varrho(\xi_i,\eta_i)}{1 + \varrho(\xi_i,\eta_i)}$

Let $a = \{\alpha_i\}_1^n$ be a sequence of numbers in a field T and assume that only finitely many α_i are equal to zero. If by s'(X) we denote the set of all $x = \{\xi_i\}_1^n$, $x \in s(X)$ such that $\sum_{i=1}^n \alpha_i \xi_i$ converges in (X, ξ_i) , then s'(X) is a set of the first category in $\{s(X), \xi_i'\}$.

Theorem 1.2. Let X be a Banach [with norm ||x|| = e(x, 0)] over a field T. Card 14

L 21859-65

ACCESSION NR: AP500L138

and let (s(X), C') have the same meaning as before. Moreover, let $A=(a_{nm})$ be an infinite lower triangular matrix of complex (real) numbers satisfying the following conditions:

(a)
$$\lim_{n \to \infty} a_{nm} = 0$$
, $m = 1, 2, ...$;

(b)
$$\lim_{n\to\infty}\sum_{m=1}^{n}\alpha_{nm}=\beta,\beta+0.$$

By $s_1(X)$ we denote the set of all $x = \{C_i\}_1^m \in s(X)$ that are summable by the matrix A. Then $s_1(X)$ is a set of the first category in $(s(X), e_i')$.

Theorem 2.1. Let $a = \{a_i\}_{i=1}^{\infty}$ be a sequence of real numbers, and assume that only finitely many a_i can be equal to zero. Then, for all $x = \{a_i\}_{i=1}^{\infty} \in S$ with the exception of points in sets of the first category (in s), we have

$$\liminf_{n\to\infty} \sum_{i=1}^{n} \alpha_i \xi_i = -\infty; \lim \sup_{n\to\infty} \sum_{i=1}^{n} \alpha_i \xi_i = +\infty.$$
 (1)

Theorem 2.2. Let $A=(a_{nm})$ be an infinite matrix such that for each $n=1,2,\ldots$ there exists an m_n such that $a_{nm_n}\ne 0$ and $a_{nm}=0$ for all $m>m_n$, and assume that $a_{nm_n}\ne 0$ multiple $a_{nm_n}\ne 0$. Notation:

$$s_2' = \delta \left(x = \{ \xi_i \}_i^{\infty} \in s; \text{ lim sup } r_n(x) = +\infty, \text{ lim inf } r_n(x) = -\infty \right).$$

Card 2/4

L 21859-65

ACCESSION NR: APSOOLI38

Then the set s', is a set of the second category in the space s.

Theorem 3.1. Let $a = \{a_i\}_{1}^{\infty}$ be a sequence of real numbers and assume that $a \notin 1^{(p')}$, where $1^{(p')}$ is defined as usual and p' is a real number such that 1/p+1/p'=1. Then, for all $x = \{e_i\}_{i=1}^{\infty}$, with the exception of points in sets of the first category, we have

lim inf $\sum_{i=1}^{\infty} \alpha_i \xi_i = -\infty$, lim sup $\sum_{i=1}^{\infty} \alpha_i \xi_i = +\infty$. (3)

It is a consequence of the following theorem that the "majority" of sequences $x = \{\xi_i\}_{i=1}^{\infty} \in \mathbb{I}^{(p)}$ converge to zero very slowly.

Theorem 3.2. Let $\{p_n\}_1^{\infty}$ be a sequence of positive real numbers and $\limsup p_* = +\infty$. Then, for all $x \in I(p)$, with the exception of points in sets of the first category, we have

$$\lim_{n\to\infty}\inf \rho_n \xi_n = -\infty, \quad \limsup_{n\to\infty} \rho_n \xi_n = +\infty.$$

Theorem 4.1. Let a= $\{\alpha_i\}_{1}^{\infty}$ be a sequence of real numbers, $\limsup |\alpha_i| = +\infty$,

Card 3/4

L 21859-65 ACCESSION NR: AP5001138

and let 1, as usual, be the set of all sequences of real numbers $x=\{\xi_i\}_1$ such that the series ξ_i ξ_i converges. Then for all $x=\{\xi_i\}_1$, with the exception of points in sets of the first category.

$$\lim_{n\to\infty}\inf\sum_{i=1}^n\alpha_i\xi_i=-\infty,\quad \limsup_{n\to\infty}\sum_{i=1}^n\alpha_i\xi_i=+\infty$$

Orig. art. has 28 formulas.

ASSOCIATION: Katedra matematickej analyzy Prirodovedeckej fakulty Univerzity Komenskeho, Bratislava (Department of Mathematical Analysis of Natural Science Faculty at Comenius University)

SUBLITTED: 26Jan63

ENCL: 00

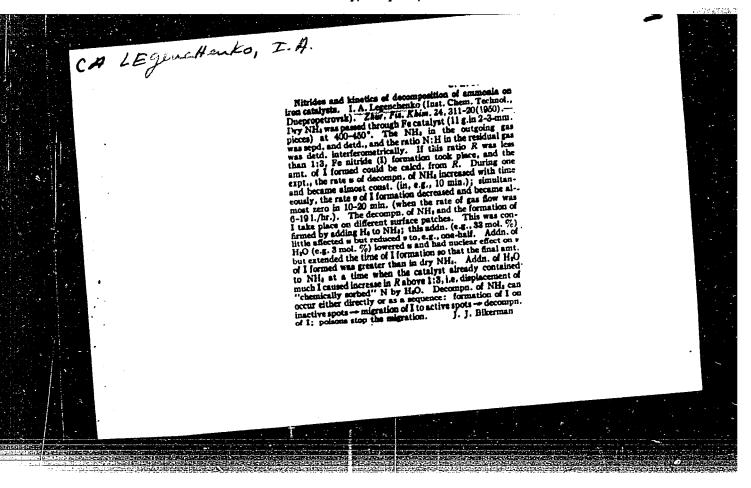
SUB CODE: MA

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OTHER: Oll

JPRS

Card 4/4



CIA-RDP86-00513R000929120 "APPROVED FOR RELEASE: Monday, July 31, 2000

· LEGENCHENKO, I. A.

FD 171

USSR/Chemistry - Soda Production

Card 1/1

: Legenchenko, I. A. Cand Chem Sci, and Demicheva, O. D. Author

: Experimental work on the development of a process for the purification Title

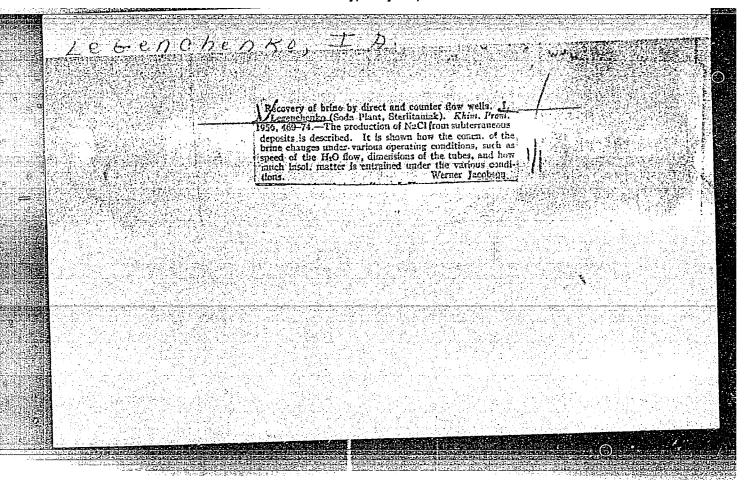
of the brine at a soda plant.

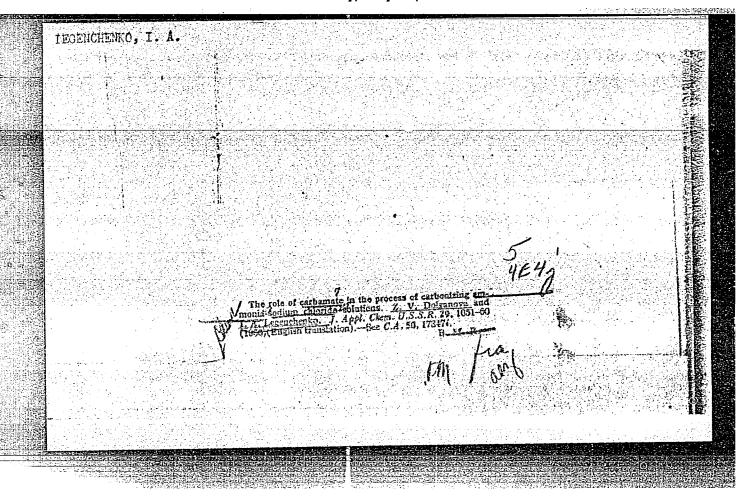
Periodical: Khim. prom. 3, 31-33 (159-161), April-May 1954

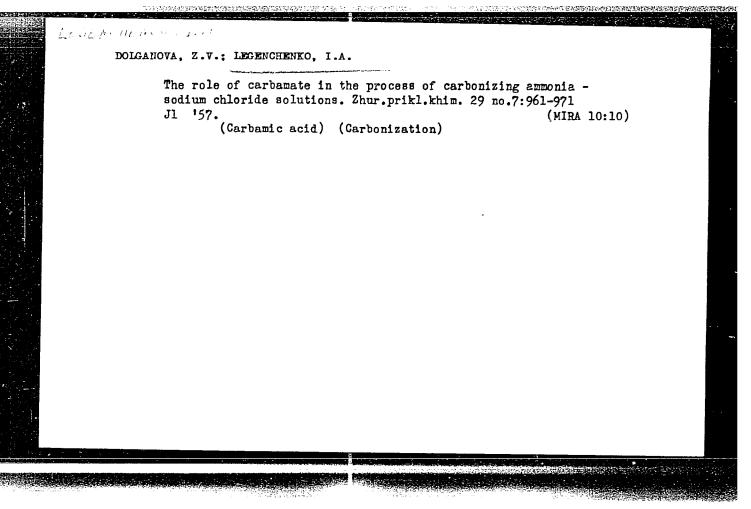
: Describes development and pilot-plant work on the purification of sodium Abstract

chloride solutions with calcium hydroxide and soda. Illustrated by 1

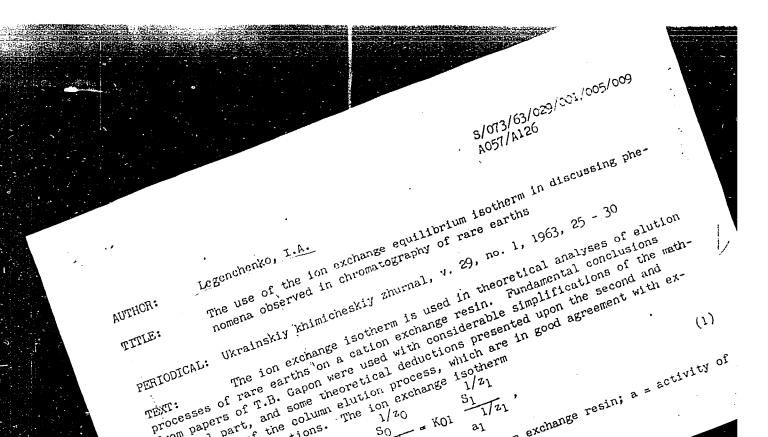
figure. Data are listed in 4 tables. 1 USSR reference is given.

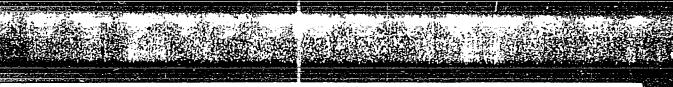






APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0009291200





S/073/63/029/001/005/0*09* A057/A126

The use of the ion exchange equilibrium isotherm

same ions in solution; z = charge of the ion; K = ion exchange constant) was simplified by assuming that the charges of ions are equal and also a = concentration. Thus the equation for a system with three types of ions becomes:

$$\frac{S_0}{C_0^T} = K_{01} \frac{S_1}{C_1^T} = K_{02} \frac{S_2}{C_2^T}, \qquad (2)$$

giving results, which are qualitatively valuable also for ions with different valencies. Calculations of the effect of the complexing agent and the auxiliary cation are carried out in two variants. The development of the chromatographic process in liquid and solid phase is discussed on the example of a column with 15 elementary and 5 separating layers. The following facts, observed already in practice, were deduced theoretically in this paper: If relatively weak complexing agents are used, only low concentrations of rare earths can be expected in the filtrate. The solid phase will contain small quantities of rare earths if strong complexing agents are used and a separating layer charged with a cation forming instable complexes. The most effective separation of rare earths is effected by the elution with a strong complexing agent in combination with a monovalent cation (Na⁺, NH₄), carrying out the separation (third stage) on a cation

Card 2/3

The use of the ion exchange equilibrium isotherm \$\sigma 5/073/63/029/001/005/009

exchange resin layer loaded with a cation (Cu²⁺, Fe³⁺), which gives more stable complexes than the rare earths. Thus, according to the theory and experiments, filtrate. There are 2 figures.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR, Laboratorii v Odesse (Institute of General and Inorganic Chemistry of the AS

Card 3/3

P. DELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000929120

8/073/63/029/004/001/003 A057/A126

AUTHOR:

Kornelli, M.E., Legenchenko, I.A

TITLE:

Sorption of rare earth cations on a cation exchange resin. I. The equilibrium neodymium - hydrogen in the system solution - cation exchange resin at 25°C

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, v. 29, no. 4, 1963, 359 - 363

TEXT: The ion exchange equilibrium of neodymium and hydrogen was investigated on the KY-2 (KU-2) cation exchange resin at 25°C and the total concentration of cations in the solution 0.04 N and 0.20 N. The batch method was used in a device with stirrer and inserted glass and calomel electrodes. The cation exchange resin was treated with 4 N HCl before use and had a granulation of 0.25 < <d < 0.5 mm. The concentration of cations in the solution was controlled by measuring the pH. For a given concentration of the anion a curve was plotted of the function of pH on the ratio of concentration Nd3+: H+. The curves obtained show in both cases (0.04 and 0.20 N) an anomalous maximum which could not be explained. The experimental data are in good agreement with the isotherm for the

Card 1/2

s/073/63/029/004/001/003 a057/a126

Sorption of rare earth cations on a cation exchange ... A057/A126

ion exchange neodymium - hydrogen, except the lower part at the maximum and left of it, where anomalous sorption processes occur. The equilibration curves were presented as straight lines

 $\frac{c_0}{c_1} = f\left(\frac{c_0}{c_0}\right)$

and the ion exchange coefficients and total exchange capacity were determined to be: the ion exchange constant 0.0124 ± 0.0002 and the total ion exchange capacity 2.94 and 2.69 mg·equiv/g. The latter is in good agreement with literature data (2.75 mg·equiv/g). There are 5 figures and 1 table.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR laboratorii v

Odesse (Institute of General and Inorganic Chemistry of the AS

UkrSSR, Odessa Laboratories)

SUBMITTED:

June 23, 1962

Card 2/2

EWP(q)/EWT(m)/BDS=-AFFTC/ASD= ACCESSION NR: AP3003993 8/0073/63/029/007/0709/0714

AUTHOR: Kornelli, M. E.; Legenchenko, I. A.

TITIE: Sorption of rare-earth cations on a cation exchanger. II. Kinetics of rare-earth cation scription from dilute solutions on acidic cation exchanger KU-2

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 29, no. 7, 1963, 709-714

TOPIC TAGS: ion exchange, sorption, rare-earth element, lanthanum, neodymium, gadolinium, cation-exchanger, acidic cation-exchanger, sorption kinetics, diffusion, surface diffusion, dilute solution, KU-2

ABSTRACT: The rate of sorption of lanthanum, neodymlum, and gadolinium cations from 0.01 N solutions of the chlorides has been studied because of its critical role in the technology of the rare earths. Apparatus, materials, and experimental procedure were described in Part 1 of this series. Concentration changes in the solution were measured over a period of time by means of a pH meter. The correlation between lanthanide/hydrogen concentration ratio and pH was established beforehand for a series of solutions at known concentrations without the cation exchanger. The plotting of curves of concentration (C) versus time (τ) made it possible to calculate the sorption rate (-dC/d τ) for a given

L 11281-63 ACCESSION NR: AP3003993

0

point on the curve. All experimental plots of sorption rate versus C were found to be straight lines expressed by the kinetic equation:

 $-dC/d\tau = kC - a, (1)$

where k is the rate constant and a is a quantity defining equilibrium concentration. The rate constant k was determined from the slope of the plot of rate versus C, and the apparent activation energy of sorption, from a plot of log k versus 1/T. The increase in k with temperature at 15—35C was found to be uncharacteristic of chemical kinetics. The form of equation (1), the low apparent activation energies at 4120—6040 cal/mol, and the effect of cation-exchanger grain size suggested a surface-diffusion mechanism for the sorption. It is noted that k increased linearly with an increase in the weight of the cation-exchanger sample, while it decreased by a factor of 1.3—1.6 when the grain size was increased in a 1/2/4 ratio. The sorption-kinetics parameters were nearly identical for Nd and Gd and were only slightly different for Ia. Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: none

Card 2/1/2

KORNELLI, M.E.; LEGENCHENKO, I.A.

Sorption of rare-earth cations on a cation exchanger. Part 3: Kinetics of the sorption of rare-earth elements on a KU-2 resin in ammonium and sodium forms. Ukr. khim. zhur. 29 no.11:1147-(MIRA 16:12) 1150 163.

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR, laboratorii v Odesse.

KORNELLI, M.E.; LEGENCHENKO, I.A.

Sorption of rare earth cations on a cation exchanger. Report No.4: Equilibrium between rare earth cations and ammonium and sodium cations in the system solution - cation exchanger. Ukr.khim.zhur. 30 no.2:165-169 '64. (MIRA 17:4)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR, Laboratorii v Odesse.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0009291200

L 32221-65 EWI(m)/EWG(m)/EWP(b) RWH/JD/JG/GS/RM

AUTHOR: Kornelli, M.E.; Legenchenko, I.A.

TITLE: Kinetics of the adsorption of rare earth elements by cation exchange resins

SOURCE: AN SSSR. Institut fizicheskoy khimii. Issledovaniye svoystv ionoobmennykh materialov (Research on the properties of ion-exchange materials). Moscew, Izd-vo

8/0000/64/000/000/0024/0029

TOPIC TAGS: column chromatography, cation exchange resin, rare earth, adsorption

ABSTRACT: Solutions of LaCl3, NdCl3 and GdCl3 and commercial KU-2 cation exchange resin in the H+, Na+, and NH½ forms with grain diameters of 0.025, 0.25-0.50, and 0.5-1.0 mm were used in a study of the adsorption of the La, Nd, and Gd cations by ion exchange resins at 15-50C. The experiments were conducted in an assembly comprising a mixer, as shown in Fig. 1 of the Enclosure as a function of temperature and cations of the two-phase system in the changing cattor as a function of temperature and cations.

L 32221-65
ACCESSION NR: AT5002301

potentiometrically or trilonometrically. The results for La, presented in a diagram, were found to follow a straight line relationship, while those for Nd and H_ resin were a curvilinear function of time. A diffusion mechanism of adsorption is assumed for the systems studied. Orig. art. has: 3 figures, 2 tables and 1 formula.

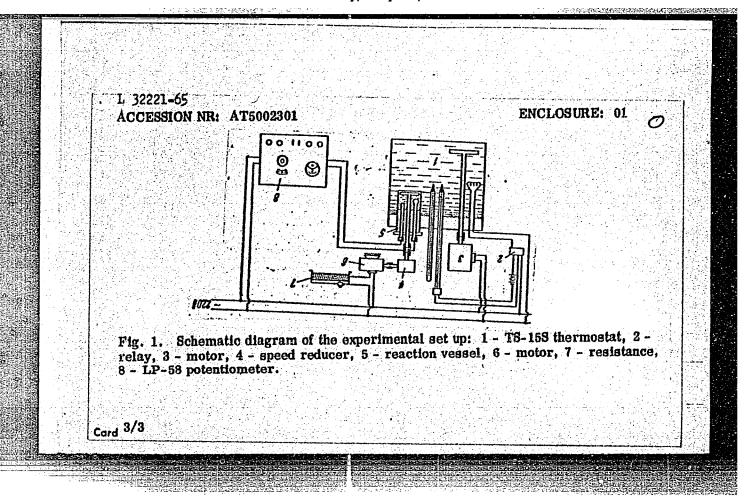
ASSOCIATION: none

SUBMITTED: 06Aug64 ENCL: 01 SUB CODE: IC, GC

NO REF SOV: 002 OTHER: 002

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0009291200

Card2/3



L 2012-66 ENT(m)/ETC/ENG(m)/ENP(j)/T/ENP(t)/ENP(b) LUP(c) DS/JD/RM

ACCESSION NR: AP5023966

UR/0073/65/031/009/0898/0907 661.183.123 ///

AUTHOR: Khromova, N. P.; Legenchenko, I. A.

TITLE: Sorption of ethylenediaminetetraaceto-complexes of rare earth elements by anion exchange resins. I. Kinetics of exchange of a lanthanum complex with chlorine anion over AV-17 anion exchange resin

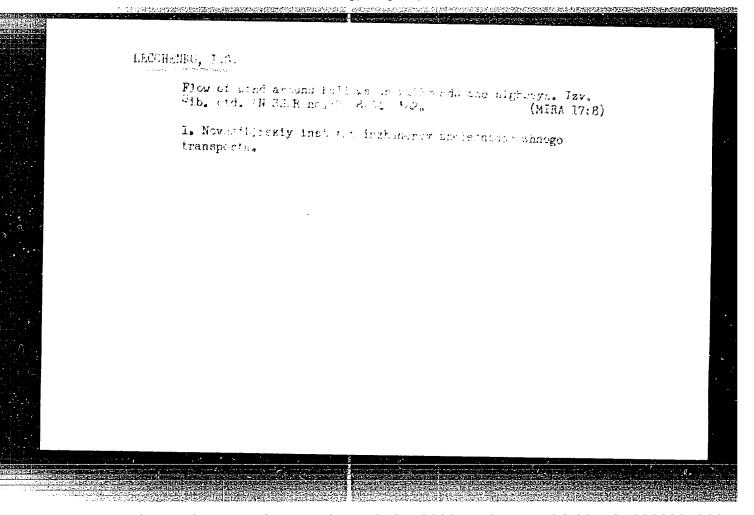
SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 31, no. 9, 1965, 898-907

TOPIC TAGS: ion exchange resin, anionite, lanthanum compound, complex molecule, exchange reaction

ABSTRACT: The kinetics of exchange of lanthanum complexes with chlorine ion over AV-17 resin was studied in detail in order to develop a method of separation of rare earth elements. The starting lanthanum complex was prepared by exchange for lanthanum of a solution of the tetra-substituted sodium salt of ethylenediamine-tetraacetic acid using a lanthanum form of KU-2 cation exchange resin. The exchange duration over AV-17 resin varied from 50 to 400 min, the agitation was varied from 50 to 400 rpm, the resin particle size varied from 0-25 to 1.00-2.00 mm, and the temperature varied within 15-45°C. It was found that except for the ini-

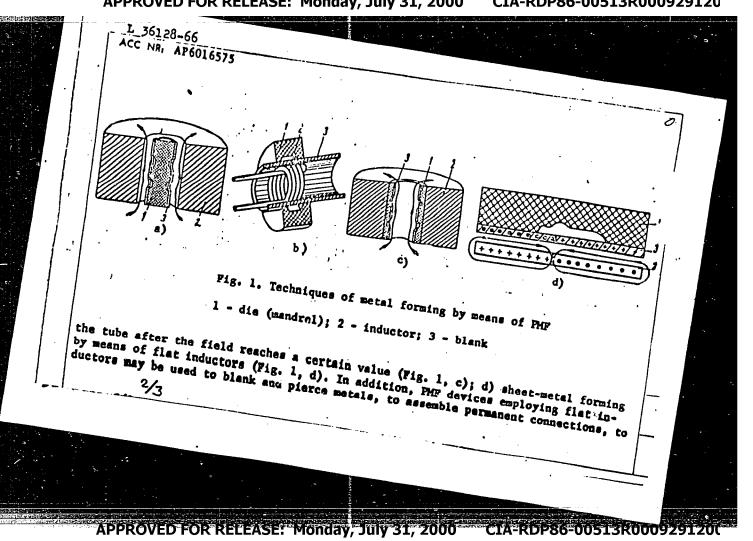
Card 1/2

ACCESSION NR: AP5023966	ter term of the entering of th	enteres entre de la companya del companya de la companya del companya de la compa	į
tial period of exchange over climited by external mass transparticles (1.00-2.00 mm in diafer. In the case of operation exchange kinetics is strictly 4 tables.	sfer. In the case of excha ameter) the process is limi n in the internal mass-tran	nge over coarse resin ted by internal mass-tra sfer region, the overall	
ASSOCIATION: Institut obshche	ey i neorganicheskoy khimii	AN UkrSSR, laboratorii	,
Odesse (<u>Institute of General a</u> SUBMITTED: ^13Apr64	ENCL: 00	the second secon	
SUBMITTED: ^13Apr64 NO REF SOV: 006		SUB CODE: # C, G-C, /	
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L 36128-66 ENT(m)/FWP(k)/EWP(t)/ETI IJP(c) JD/HW ACC NR. AP6016575 SOURCE CODE: UR/0182/66/000/005/0001/0007 AUTHOR: Popov, Ye. A.; Socherov, Yu. A.; Polyak, S.M.; Stolbunov, A. S.; Raykh, D. B.; Legchilin, A. I. ORG: none TITLE: Hetal forming by means of a pulsed magnetic field, Part. 1. Nature of process and equipment SOURCE: Kuznechno-shtampovochnoya proizvodstvo, no. 5, 1966, 1-7 TOPIC TAGS: pulsed magnetic field, metal forming, die, electric energy conversion ABSTRACT: Hetal forming by means of a pulsed magnetic field (PMF) is based on the conversion of the electric energy accumulated in the storage element during discharge via an inductor, to the energy of a pulsed magnetic field which creates the pressure shaping the metal blank. In this connection, the authors present formulas for determining the electric and magnetic paramoters of the process. It is shown that the efficiency of PMF used in the forming of sheet metal ranges from 10 to 40%. There exist several techniques of PMF metal forming, as illustrated in Fig. 1: a) reduction of tube diameter by means of an inductor surrounding the tube (Fig. 1, a); b,c) flaring of the tube end by means of an inductor located within the tube (Fig. 1, b) with placement of die outside the tube in order to prevent the flaring of the remainder of UDC: 621.7.04/s Card 1/3

是到各种基础的的基础的,可是是对各种的对象的对象。但可以是在中华人们的企业,可以也可以可以可以可以是是对于这种的的数据的。 第1885年,第1885年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,



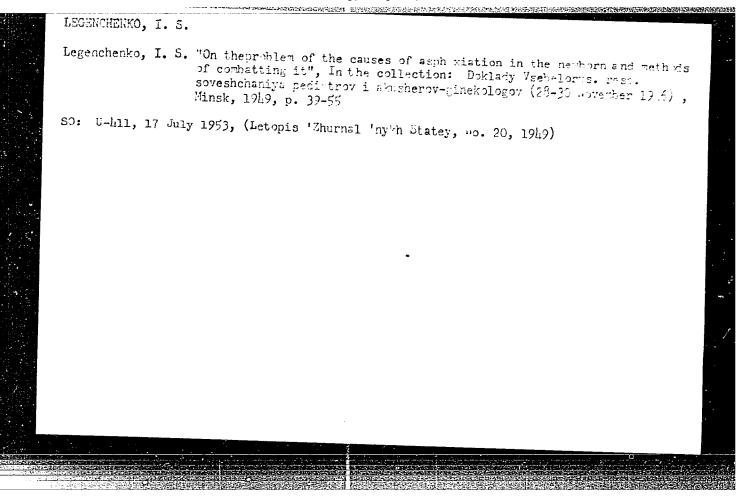
L 36128-66 ACC NR: AP6016575

straighten plane and curved surfaces, and to shape metal located within a chamber, housing or shell consisting of dielectric materials. These devices consist of five principal components: charger (high-voltage rectifier), power storage element (capacitor banks), discharger-switch (arc discharger), igniter (thyratron), and forming element (working inductor and die or mandrel along with attachments for clamping the blank). The specifications of a Soviet-built PMF metal-forming installation, include: supply voltage, 230 v; mean discharge current, 15 a; maximal energy stored in capacitor bank, 7.2 kilo-joules; maximum electromagnetic pressure exerted on blank, 6400 kg/cm²; time per cycle, 2 min; pulse time (half-period time), (40-50) 10⁻⁰ sec; maximum diameter of blank, 140 mm; dimensions of PMF installation, 1200x700x1500 mm. The second part of this investigation, which describes the mechanism of plastic deformation by means of PMF, will be published in the next issue of the same journal. Orig. art. has: 10 figures, 21 formulas.

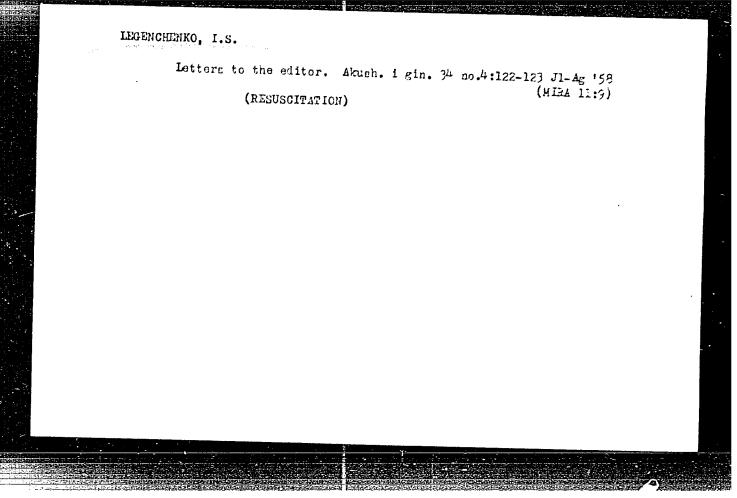
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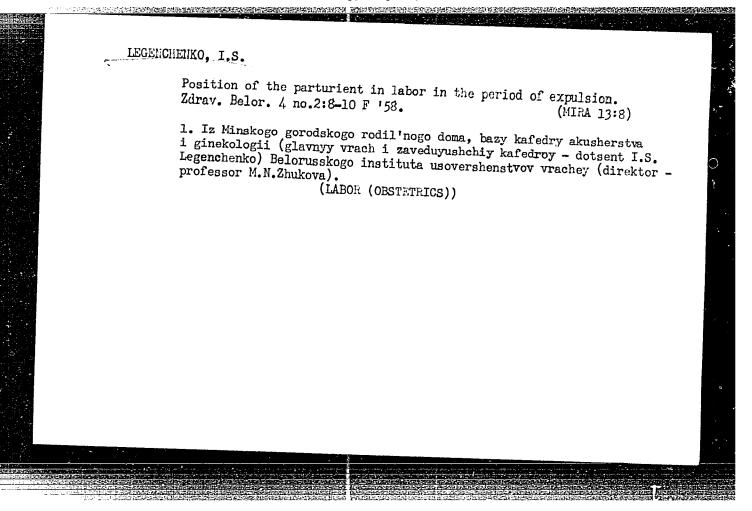
SUB CODE: 13,20,11,09/ SUEM DATE: none/ ORIG REF: 002/ OTH REF: 001/

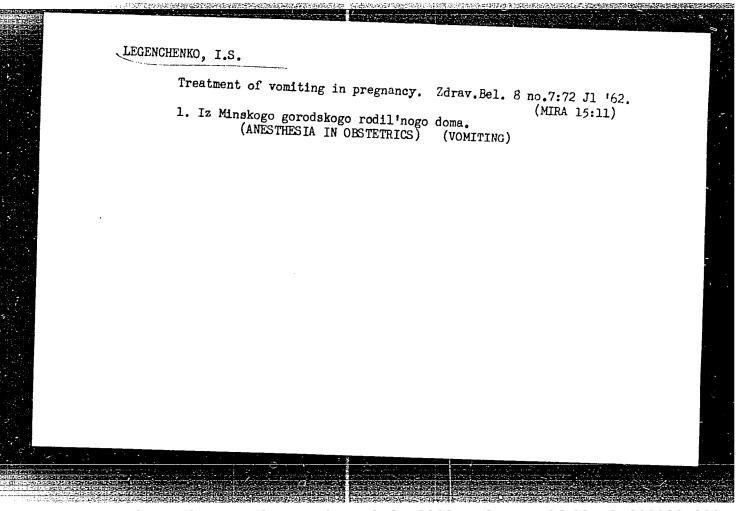
r-m 3/2 ///-



LEGENCHENKO, I.S. New method of anesthesia and acceleration of labor. Akmsh. gin., Moskva no.6:16-19 Nov-Dec 1951. (CIML 21:2) 1. Of the Obstetric-Gynecological Clinic (Director -- Docent I. S. Legenchenko) of the Beloruseian Institute for the Advanced Training of Physicians.







ACCESSION NR: AP4021978

s/0073/64/030/002/0165/0169

AUTHOR: Kornelli, M. E.; Legenchenko, L.A.

TITLE: Sorption of rare earth cations on cationite.

IV. Equilibrium between cations of the rare earth elements and ammonium

and sodium cations in the solvent-cationite system

Ukrainskiy khimicheskiy zhurnals, v. 30, no. 2, 1964, 165-169 SOURCE:

TOPIC TAGS: rare earth element, sorption, cationite, KU-2 cationite, lanthanide, ion exchange, exchange equilibrium, exchange constant, neodymium, gadolinium, lanthanum, exchange capacity

ABSTRACT: This is a continuation of work (Ukr. khim. Zh., 29, 359 (1963)) on neodymium-hydrogen equilibria in solvent-cationite KU-2 systems. The sorption of rare earth cations on the sodium and ammonium form of the cationite was investigated. The equilibrium exchange of the three lanthanides studied with the monovalent (Na+ and NH $_{l_1}^+$) cations is subject to the Nichols isotherm

Card 1/2

$$\frac{S_0}{C_0} = K \sqrt{\frac{S_L}{C_L}}.$$

ACCESSION NR: AP4021978

where $C_{\widetilde{L}}$ is the concentration of the rare earth cation in the liquid phase; $C_{\widetilde{O}}$ is the concentration of the cation partner in the liquid phase, S₁ is the concentration of the lanthanide in the solid phase; and S is the concentration of the cation partner in the solid phase. The exchange constants were determined for different conditions, varying initial lanthanide concentration, temperature and the form of the exchange resin. The constants are practically the same for Nd3+ and Gd5+ (about 4.65 mg. equiv./gm.) and somewhat different for La3+. The exchange constants for all three lanthanides are higher in the case of exchange for ammonium than for exchange for the sodium cation. Increasing the temperature by 25° increases the exchange constant 6-15%, but does not affect the value of the total exchange capacity. Increasing the initial lanthanide concentration does not affect the exchange constant to a great extent. Orig. art. has: 4 figures, 5 equations

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN UkrSSR Laboratorii v Odesse (Institute of General and Inorganic Chemistry AN UkrSSR, Odessa Laboratory)

SUPMITTED: 21Apr 63

DATE ACQ: 09Apr64

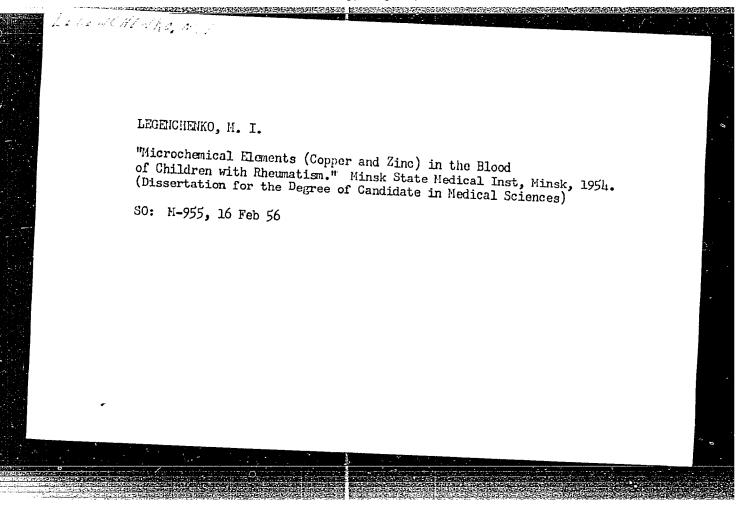
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NO REF SOV: 002

OTHER: 002

Card 2/2



Treatment of toxic dyspepsia in children, Zdrav. Belor. 6 no.3: 25-29 Mr '60. (MIRA 13:5) 1. Iz kafedry detskikh bolezney Minskogo meditsinskogo instituta (saveduyushchiy kafedroy - professor V.A. Leonov). (DYSPEPSIA)

S/133/62/000/012/001/012 A054/A127

AUTHORS:

Yefimov, V.A., Candidate of Technical Sciences, Legenchuk, V.I.,

Sivtsov, G.V., Konovalov, I.M., Bykov, G.D., - Engineers

TITLE:

Top-pouring steel under slag

PERIODICAL: Stal', no. 12, 1962, 1,074 - 1,078

TEXT: To improve the quality of the surface of top-poured low-carbon steel ingots, the processes taking place at the contact-surfaces of metal, slag and ingot-mold have been investigated at the Cherepovetskiy metallurgicheskiy zavod (Cherepovetsk Metallurgical Plant). The quality of the ingot surface is known to depend on the size of the liquid metal meniscus forming at the place of contact between mold wall and metal. The radius of this convex meniscus depends on the surface stresses at the boundary between metal and liquid slag. It was found that addition of synthetic slags on the mold bottom considerably improved the conditions of skin formation and, consequently, also the quality of the metal surface. For, if the slowly rising metal is covered by a low-smelting slag layer, the latter will protect the metal against oxidation and cooling, it will adsorb

Card 1/4

Top-pouring steel under slag

S/133/62/000/012/001/012 A054/A127

the high-smelting reduction products and prevent the creasing of the skin. The liquid slag penetrates between the metal meniscus and the mold wall and forms a heat-insulating layer. This will cause the skin of the metal to cool down more slowly and will reduce the shrinkage stresses. The slag composition must ensure a heat-insulating layer of optimum thickness between mold wall and ingot. The greater the meniscus radius, the thicker the slag crust will be. The optimum surface tension of the slag must be determined experimentally. The required viscosity of the synthetic slag can be ensured by addition of liquefiers. Moistening of the mold wall tends to thicken the solidifying slag layer. It is advisable to coat the mold wall with a substance of high surface tension, such as aqueous graphite suspension or lime milk. The method has been applied in the toppouring of CT.3cn (St.3sp), 3T (3t) and 19 T (19G) low-carbon grades. The following slag compositions were tested:

	Α	В	C	D	E
Components, 发				_	_
cupola furnace slag	-	100	90	95	.93
fluorite	24	_	10	5	7
Grain size, mm	1-0	3-0	3-0	5-2	3-0
Card 2/4					-

	٠.	·		33/62/000/01	2/001/012
Top-pouring steel under	A05	A054/A127			
•	Α	В	C	D .	E
Chemical composition,	Z				
CaO	. 20.0	26.7	24.2	24.2	30.0
SiO ₂	15.2	43.2	39.0	43.0	40.5
Al ₂ o53	22.8	18.9	17.1	12.9	10.9
CaFo	38.0		9.5	4.6 .	6.5
FeO	2.0	5.6	5 + 0	9.7	7.0
MgO	2.0	2.0	1.8	1.7	2.1
MnO		3.6	3.4	3.9	3.0
Surface tension (calculated, dyne/cm	425)	42 8	.421	402	403

Slag was fed into the mold prior to pouring, in some tests it was also added onto the metal surface during pouring. To accelerate the smelting of the slag, the quantity of fluorite was raised to 25%; at the beginning of the tests the amount of slag added was 60 - 80 kg, later this was reduced to 40 kg (3 kg/ton), because when greater amounts were added, the bottom part of the ingot deteriorated. The favorable effect of the new method can be seen from a comparison of the defect percentages of conventional and slag-poured ingots: the amount of cracks and

Card 3/4

Top-pouring steel under slag

S/133/62/000/012/001/012 A054/A127

fissures in the latter was reduced by a factor of 4, that of scales by a factor of 6. The labor consumption for pleaning the 13.6-ton slabs poured under slag decreased by a factor of more than 2. The article contains formulae for the calculation of the forces involved in the formation of the meniscus and the slag layer. There are 4 figures.

ASSOCIATION: Institut ispol'zovaniya gaza AN USSR (Institute of Gas-Utilization of the Academy of Sciences of the Ukrainskaya SSR) and Cherepovetskiy metallurgicheskiy zavod (Cherepovetsk Metallurgical Plant)

Card 4/4

YEGIMOV, V.A.; OSIPOV, V.P.; SAPKO, V.N.; LEGENCHUK, V.I.; SIVTSOV, G.V.;
BYKOV, G.D.

Measures for improving the top pouring of steel. Vop. proizv.
stali no.9:79-95 '63.

(MIRA 16:9)

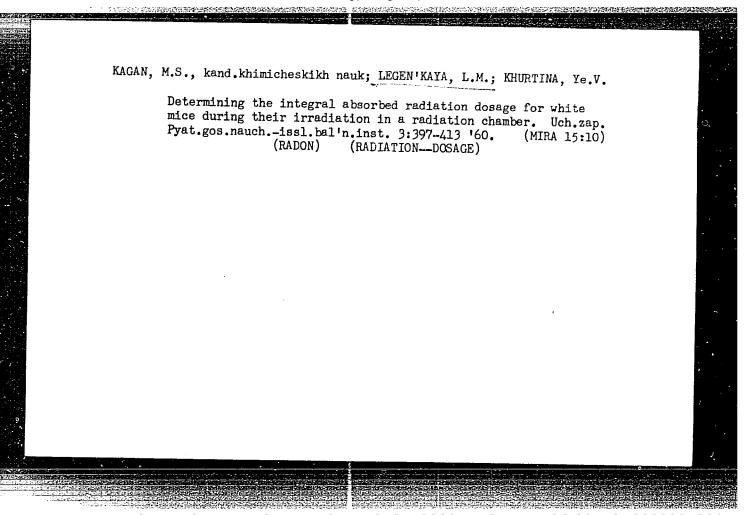
YEFIMOV, V.A., kand.tekhn.nauk; LEGENCHUK, V.I., inzh.; SIVTSOV, G.V., inzh.; KONOVALOV, I.M., inzh.; BYKOV, G.D., inzh.; TATYANSHCHIKOV, A.G., inzh.

Top pouring of steel under slag. Stal! 22 no.12:1074-1078 D '62.

(MIRA 15:12)

1. Institut ispol'zovaniya gaza AN UkrSSR i Cherepovetskiy metal-lurgicheskiy zavod.

(Steel smoth)

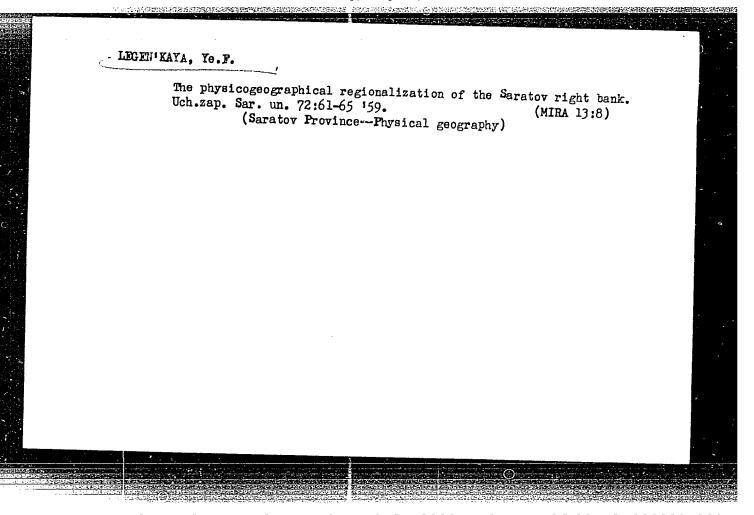


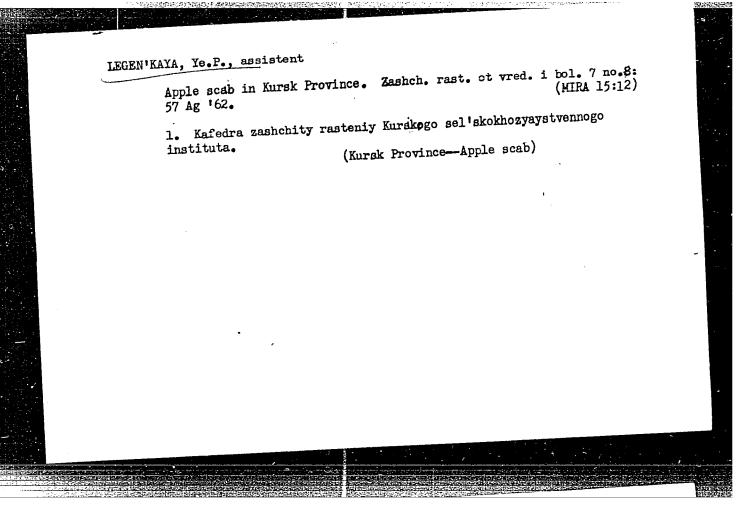
DERYABINA, V.M.; KAGAN, M.S.; LECEN'KAYA, L.M.; KHURTINA, Ye.V.

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1. Iz eksperimental'nogo otdela (zav. - prof. A.K. Pislegin) i radiologicheskoy laboratorii (zav. - kand.med.nauk M.S. Kagan) Pyatigorskogo nauchno-issledovatel'skogo bal'neologicheskogo instituta.

(RADON) (STOMACH-SECRETIONS)



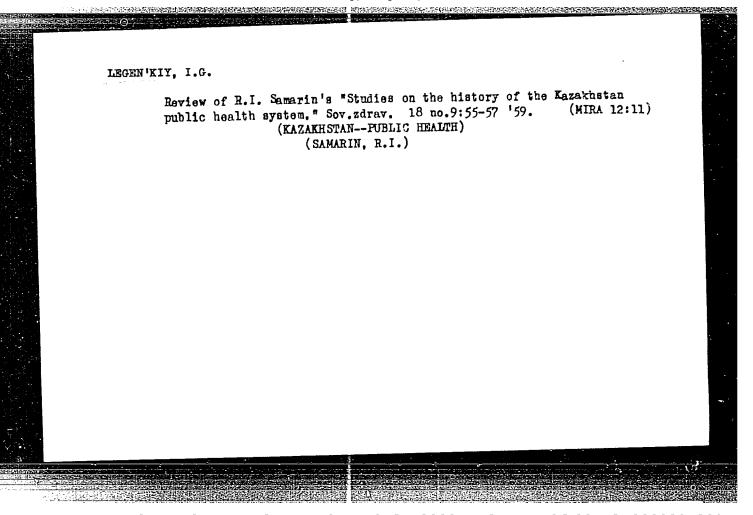


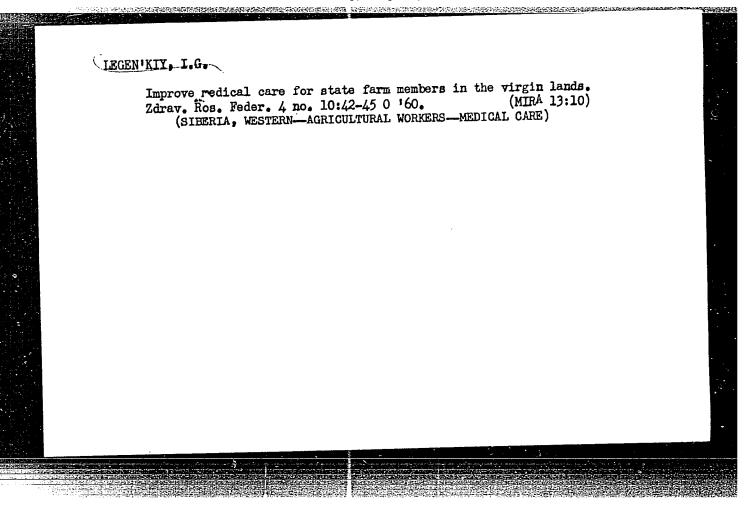
MIROVALEVA, Z.G., dotsent; SHANGIN, N.I.; LEGEN'KIY, I.G., assistent;
SLOBODENTUK, N.I.

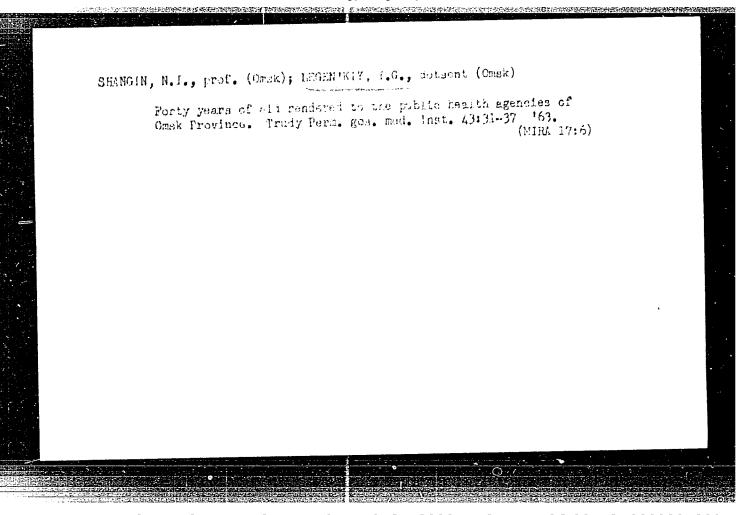
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1. Iz kafedry organizateii zdravookhraneniya Omekogo meditsinskogo instituta imeni Kalinina, zav. kafedroy dotsent Z.G.Mirovaleva.

(OMSK PROVINCE—PUBLIC HEALTH)



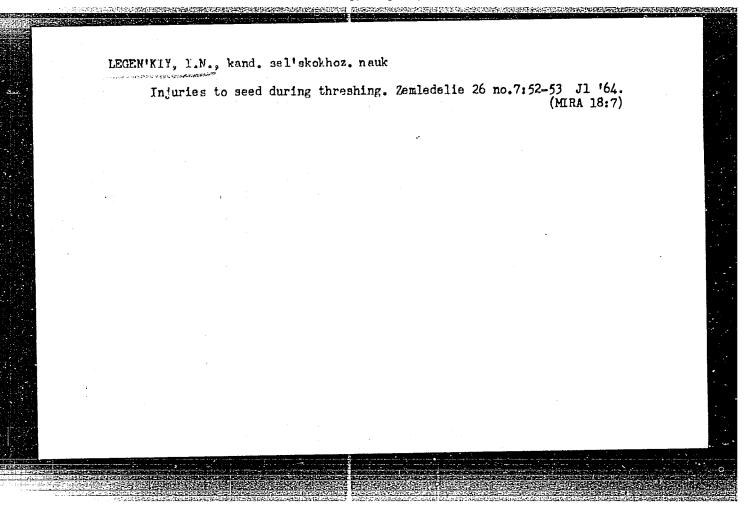


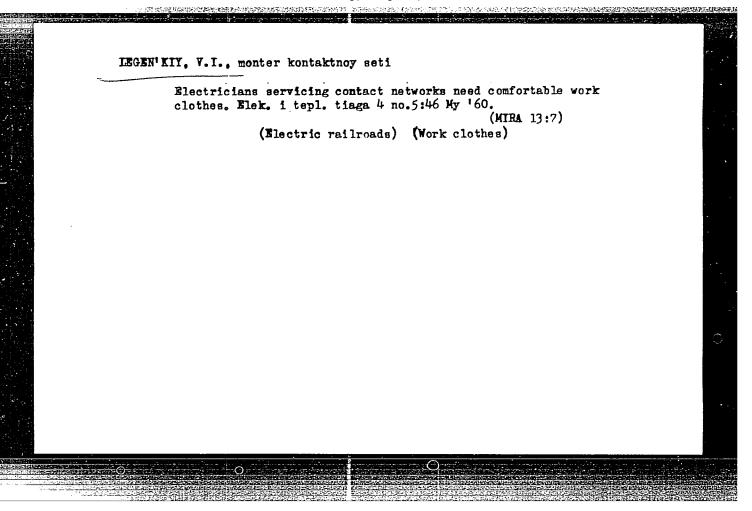


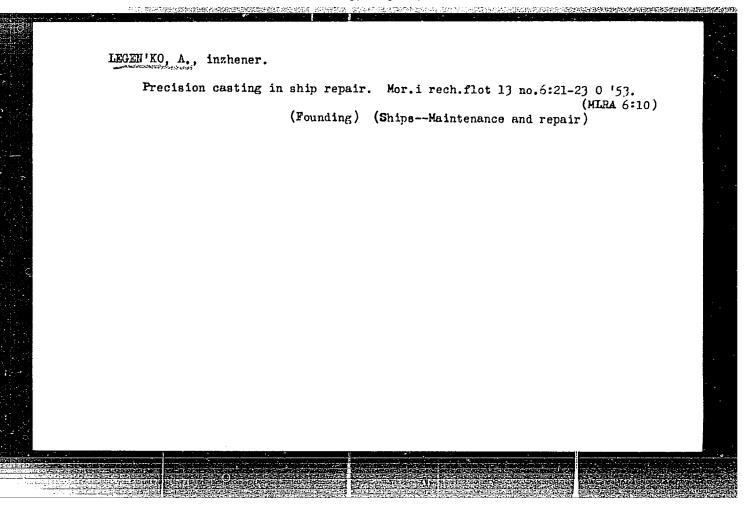
LEGEN'KIY, I.G., dotsent (Cmsk)

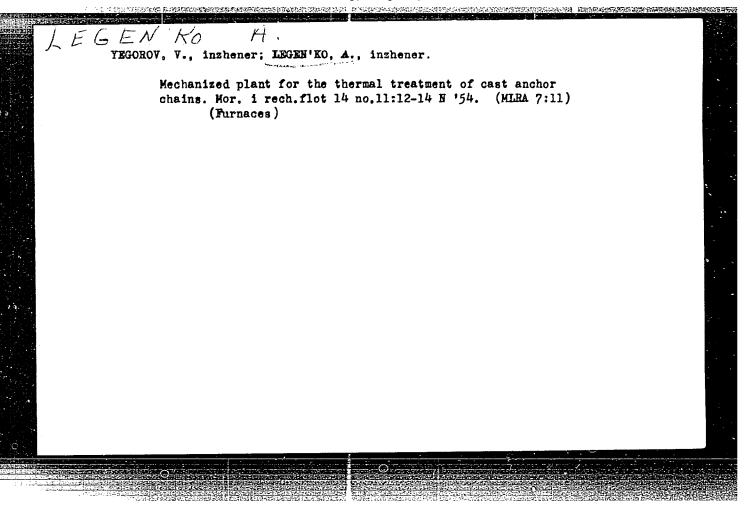
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- 1. LEGEN'KO, A. S.
- 2. SSSR (600)
- 4. Metalworking Machinery
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